# PATENT ABSTRACTS OF JAPAN

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(71) Applicant : MEISEI ELECTRIC CO LTD

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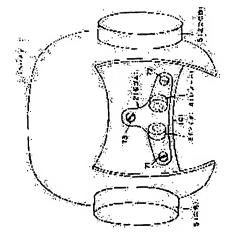
NAGAYAMA HIROSHI YAMAGUCHI YOSHIYUKI

### (54) BONE-CONDUCTION CALLING DEVICE

(57) Abstract:

PURPOSE: To decrease an incongruous sense at the time of installation by press- contactinstalling the microphone and/or receiver of a bone conduction structure at the hollow of the nape of the head part.

CONSTITUTION: At a rear internal wall surface 101 of a helmet 1, a microphone 3 and a receiver 4 of the bone conduction structure are fitted through an elastic body, for example, an approximately band-shaped flat rubber 2. In addition, a calling device main body (a transceiver) 5 and a battery 6 to be the operational power source of the transceiver 5 are fitted on the both sides of the helmet 1, and only by wearing the helmet 1, the installation of the calling device is completed. Since the hollow of the nape of the head part is comparatively dull against a pressing force, even when the microphone or the



receiver is press-contacted to the hollow of the nape, the incongruous sense is comparatively small, and the bone conduction calling device with high usability can be obtained.

#### LEGAL STATUS

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(71) Applicant : MEISEI ELECTRIC CO LTD

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(72) Inventor: YAMAZAKI SHIGEO

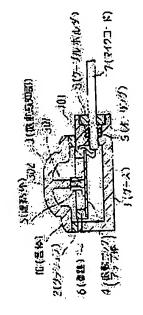
NAGAYAMA HIROSHI

#### (54) BONE-CONDITION MICROPHONE

(57) Abstract:

PURPOSE: To easily mount the titled microphone without a special outfit by constituting it so that a vibration pick-up body may be fitted in a suspended condition in a space around a vibration sensing part.

CONSTITUTION: An spindle body 301 is provided at the center part of a vibration sensing part 3, and a linking body 5 stuck and fixed at the center of a vibration pick-up body 4 is screwed and fixed at the tip of the spindle body 301. Thus, the pick-up body 4 is supported in the suspended condition in the internal space of a case 1. The bone-conduction microphone with such a constitution is fitted at the inner surface of a helmet, and when a diver puts on the helmet, the sensing part 3 contacts with the head at a suitable contact pressure. When the diver utters a voice, the vibration generated in the skull of the diver is sensed



by the sensing part 3, transmitted through the spindle body 301 and the linking body 5 to the pick-up body 4, and outputted to a mike code 7.

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